Explanation of Variables Used in the Score Sheet for Rating Resilience and Resistance				
Site Characteristics	**Variable**	**Explanation**	**Score**	
			min	**max**
Temperature (Soil temperature regime + Species or subspecies of sagebrush)				
Soil temperature regime	**1** = Hot-mesic **2** = Warm-mesic **3** = Cool-mesic **3** = Cool-cryic **4** = Warm-frigid **5** = Cool-frigid **6** = Warm-cryic	Derived from soil descriptions, ecological site descriptions, or estimated for each MLRA based on elevation (see Appendix 2). It is necessary to adjust for aspect and to consider if you are in the lower (warm) or upper (cool) part of the temperature regime.	1	6
Species or subspecies of sagebrush	**1** = Wyoming, low, black, and Lahontan **2** = basin, Bonneville, and xeric **3** = mountain	Sagebrush species and subspecies correspond to soil temperature and moisture regimes, and soil depth and texture, and differ over elevation gradients as described in ecological site descriptions, Table 3, and Appendix 2.	1	3
Temperature (A)		Sum of soil temperature + sagebrush subspecies	2	9
Moisture (Precipitation + Soil texture + Soil depth)				
Precipitation in inches (in)	**1**=<10, **2**=10-12, **3**=12-14, **4**= >14	Precipitation corresponds to soil moisture regime: dry-aridic <10 in, aridic 10-12 in, xeric 12-14 in, xeric >14 in.	1	4
Soil texture	**1**=clay, sand, or silt **2**=silty, sandy, or clay loams **3**=loam	Derived from soil or ecological site descriptions, or soil pits. Loams have good infiltration rates and water storage capacity; clay, sandy, or silty soils do not.	1	3
Soil depth in inches (in)	**0**=very shallow (<10) **1**=shallow (10-20) **3**=mod deep to deep (>20)	Derived from soil or ecological site descriptions, or soil pits. Soil depth is one of the major variables in determining water storage capacity and rooting depth.	0	3
Moisture (B)		Sum of precipitation + soil texture + soil depth	2	10
Total Temperature (A) + Moisture (B)		Sum of temperature and moisture scores	4	19
Pre-Treatment Vegetation (PTV) (Plant groups modified by soil depth)				
Plant Groups Deep-rooted perennial grasses (DRPG) Sandberg bluegrass (POSE) Perennial Forbs (PF) Invasive annual grasses (IAG)	**0** = DRPG scarce to severely depleted (<2-3/m^2); ***or*** POSE and PF are <5% foliar cover on very shallow soils **3** = Soils >10 in deep; DRPG scarce, but POSE, PF, and/or crusts >50% cover **6** = Soils >10 in deep; DRPG depleted (2-3/m^2, 5-10% cover); ***or*** where soils <10 in deep, POSE and PF 5-15% cover and/or co-dominant with IAG **9** = Soils >10 in deep and DRPG dominant; ***or*** soils <10 in deep and POSE or PF dominant	**0** = DRPG are <2/m^2 for xeric and <3/m^2 for aridic; invasives are dominant ***or***, if invasives are not dominant, woody species (shrubs or trees) are near maximum cover. **3** = This cover often limits establishment of DRPG thus limiting resilience, but can significantly increase resistance; cover of POSE, PF, and/or crusts required will vary with soil temperature/moisture regime. **6** = Abundance of DRPG, POSE, and PF is near or equal to IAG (IAG abundance is highly variable depending on moisture). IAG have low abundance (<5% cover), and DRPG are depleted, but >2/m^2 for xeric and >3/m^2 for aridic; ***or*** soils are very shallow and POSE and PF are 5 to 15% cover. **9** = Native grasses and forbs are dominant. If the area is seeded to nonnative grasses, return to reference state is unlikely, but annual grass resistance can be high.	0	9
Pre-Treatment Vegetation (PTV) Adjusted for Treatment Severity (Estimated)				
PTV adjusted for treatment severity	*Low severity prescribed fire or mechanical treatment* = PTV x 95% *Moderate severity prescribed fire or treatment* = PTV x 80% *High severity prescribed fire* = PTV x 20%	*Low treatment severity* results in little mortality of perennial grasses and forbs. *Moderate treatment severity* can occur in Phase I and II woodlands and high biomass shrublands. *High treatment severity* usually occurs in Phase III woodlands.	0	8.6
Total Resilience & Resistance Score Rating: Very low = <10, Low = 10-14, Moderate = 15-20, High = >20		Temperature (A) + Moisture (B) + Adjusted PTV(C) = Resilience & Resistance Score	**4**	**27.6**